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| Kode Produk<br>271 | <b>PERTAMINA</b><br>Downstream Direktorat – Marketing and Trading | Making date : August 2006<br>Revision date : 06/08/2006 |
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## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTITY

PRODUCT NAME : Meditran P 10 SAE 10W  
 PRODUSEN : PERTAMINA  
                   Jalan Perwira No. 4  
                   Jakarta Pusat Kode Pos 10110  
                   Phone : 021-3815509, Faximile : 3455344  
 Phone for Emergency Situation (24 hours) : 021-3816732  
 Phone for MSDS Information : 021-3815578

### 2. INGREDIENT COMPOSITION / INFORMATION

Chemical Name : Petroleum Hydrocarbon and additive  
 Hazardous ingredient :  
 This product does not contain any hazardous ingredient as the regulation from *European Union Dangerous Substances / Preparations Directive*. See point 15 for the regulation of ingredient analysis. See point 8 for the exposure limit (if any).

### 3. INTRODUCTION OF DANGER

Danger Standard Communication :  
 Exposure effect : There is no significant impact on short time exposure. Long time exposure can cause eyes irritation.  
 Emergency Data : Brown Liquid

### 4. FIRST AID REGULATION

Eye contact : rinse with water for 15 minutes minimum. If there is an eye irritation, please contact the doctor.  
 Skin contact : wash the exposure skin with water and soap.  
 Inhaled : Supposed to be not caused any danger. Take the person to fresh air if there is any dangerous effect  
 Swallowed : give 1 or 2 glass of water, contact the doctor, emergency room or danger supervision centre.  
 Don't give anything through the mouth that can cause vomit or sick.

### 5. FIRE HANDLING

Fire Extinguisher : Carbon dioxide, foam, dry chemical and water fog  
 Fire Extinguished Procedure : Water and foam can cause foaming. Splashing the container with water to keep the container cold. Do the splashing to remove the spill. Don't discard the spill to aqueduct, gutter, or clean water source.  
 Special Protector Equipment : The fireman have to wear *Self Contained Breathing Apparatus* (SCBA)  
 Explosion and another fire danger : Toxic Fumes  
 Flash point, °C : 213 (ASTM D-92)  
 Flammable limits – LEL : none  
                                   UEL : none  
 NFPA Hazard ID : Health : 2, Flammability : 1, Reactivity : 0  
 Hazardous Material Decomposition: Carbon monoxide. Metal Oxide. Another Oxide.



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| <b>10. STABILITY AND REACTIVITY</b> |  |
| Stability (thermal, light, etc)     | : Stable   |
| Situation/condition have to avoid   | : High temperature   |
| Material have to avoid              | : Halogen acid and halogenated   |
| Decomposition                       | : Carbon monoxide. Metal Oxide. Another Oxide.<br>Smoke, hydrogen sulfide, alkyl mercaptans. |

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| <b>11. TOXICOLOGY DATA</b>  |   |
| ----- TOXICOLOGY ACUTE -----  |   |
| Oral Toxicity (Rat)   | : Non-toxic (LD 50: higher than 5000 mg/kg). ----- based on testing of similar material and component.  |
| Skin Toxicity (Rabbit)  | : Non-toxic (LD 50: higher than 2000 mg/kg). ----- based on testing of similar material and component.  |
| Inhale Toxicity   | : Non-toxic ----- based on testing of similar material and component serupa.<br>The vapor can cause irritation on mucous membrane and the top of breathing tube if inhaled for a long time. |
| Eye Irritation (Rabbit)   | : Non-irritating (Draize score : higher than 6, lower than 15) ----- based on testing of similar material and component.  |
| Skin Irritation (Rabbit)  | : Non-irritating (Primary Irritation Index : higher than 0.5, lower than 3) ----- based on testing of similar material and component.   |
| Another Toxicity Data   | : result of toxicology acute shows that there is no acute impact on breath, when tested by oil mist or vapor.   |
| ----- TOXICOLOGY REPRODUCTION -----   |   |
| There is no data that shows the product contain > 0.1 % material that can impact the reproduction.          |   |
| ----- TOXICOLOGY KRONIK -----   |   |
| There is no data that shows the product contain > 1 % material that can impact health.                      |   |
| ----- ANOTHER TOXICOLOGY DATA -----   |   |
| There is no data that shows the product contain > 0.1 % material that has mutagen and teratogenic property. |   |

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| <b>12. ECOLOGY INFORMATION</b>  |  |
| Impact and damage on environment :<br>Non-toxic ----- based on testing of similar material and component. |  |

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| <b>13. DISPOSAL CONSIDERATIONS</b>                                    |  |
| Not proven as hazardous material based on RCRA Regulation 40 CFR 261. |  |

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|---------------------------------------|---------------------------|
| <b>14. TRANSPORTATION INFORMATION</b> |                           |
| USA DOT                               | : not-regulate by USA DOT |
| RID/ADR                               | : not-regulate by RID/ADR |
| IMO                                   | : not-regulate by IMO     |
| IATA                                  | : not-regulate by IATA    |

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| 15. REGULATION INFORMATION  |                 |              |                                  |         |                  |         |
|---|-----------------|--------------|----------------------------------|---------|------------------|---------|
| <p>Based on U.S. Superfund Amendment and Reauthorization Act (SARA) this product doesn't contain <i>EXTREMELY HAZARDOUS</i> more than 1%.</p> <p>SARA (311/312) REPORTABLE HAZARD CATEGORIES :</p> <p>This product contain chemical as follows :</p> <table data-bbox="289 415 893 504"> <thead> <tr> <th data-bbox="289 415 795 443"><b>CHEMICAL</b></th> <th data-bbox="795 415 893 443"><b>% -wt</b></th> </tr> </thead> <tbody> <tr> <td data-bbox="289 443 795 470">Zinc CI-C14 Alkyldithiophosphate</td> <td data-bbox="795 443 893 470">&gt;0.79 %</td> </tr> <tr> <td data-bbox="289 470 795 497">Alkyphenyl ether</td> <td data-bbox="795 470 893 497">&gt;0.07 %</td> </tr> </tbody> </table> | <b>CHEMICAL</b> | <b>% -wt</b> | Zinc CI-C14 Alkyldithiophosphate | >0.79 % | Alkyphenyl ether | >0.07 % |
| <b>CHEMICAL</b>   | <b>% -wt</b>    |              |                                  |         |                  |         |
| Zinc CI-C14 Alkyldithiophosphate  | >0.79 %         |              |                                  |         |                  |         |
| Alkyphenyl ether  | >0.07 %         |              |                                  |         |                  |         |

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| 16. ANOTHER INFORMATION   |
| <p>Product condition and product fitting on special application out of company guarantee; all of the using risk will be the user responsibility. User and officer that handling this product must have the warning and product handling procedur. It's forbidden to change this document, except with law legacy.</p> |